

# AOD 064 OPEN FRAME

## USER'S MANUAL



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All In One

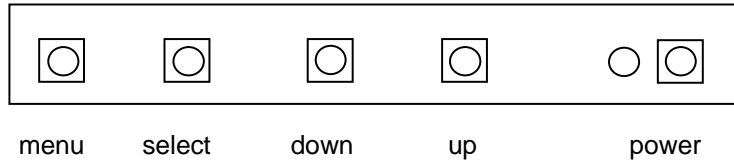
### Specifications

<b>Model</b>	6.4 inch XGA TFTLCD Monitor
<b>Display</b>	
Type	6.4"Color Active Matrix TFT LCD
Color	262,144 Color
Pixel	0.204 x 0.204 mm
Screen Size	246 (H) x 184.5 (V) mm
Resolution (Max)	640 x 480 at 60 to 75Hz
Contrast Ratio	300:1
Brightness	250 cd/m <sup>2</sup>
<b>Video</b>	
Frequency	Horizontal: 56 ~ 75KHz Vertical: 31.5 ~ 80Hz
<b>Compatibility</b>	
Plug and Play	VESA DDC 1/2B
Compatibility	VESA / IBM / MAC
Power	VESA Standard, DPMS
<b>Operation Environment</b>	
Power Consumption	Operation Mode: 35 watt max. Stand-by: 4 watt max.
Temperature	Operation Mode : 0 °C ~ 40 °C Stand-by: -20 °C ~ 60 °C
Humidity	Operation Mode: 10% ~ 85% R.H. Stand-by: 90% R.H. Max.
<b>User's Mode</b>	
OSD Key	Auto / Menu / Down / Up / Enter / Power



All In One

## OSD (On-Screen-Menu)



Button	Function	Status
POWER	Power ON or OFF	ON/OFF
LED	Indicate working status	Green : On Red : Stand-by Orange : No signal
UP	Launch OSD Menu or Add Value	Move to OSD Menu
DOWN	Launch OSD Menu or Down value	Move to OSD Menu
SELECT	Select OSD Menu	
MENU	On / Off OSD Menu	

## OSD Controls



BRIGHTNESS : Adjust brightness

CONTRAST : Adjust contrast

COLOR CONTROL : Adjust color to user,9300K,6500K

Adjust RED, GREEN, BLUE when selecting User

MISCELLANEOUS - Initialize : Make all setting value as initialization.

- OSD Timer : Adjust the time displayed on the menu box from 5sec to 100sec optionally.

- OSD Position : Adjust the position of the menu box optionally.

SOUND : -Volume : Adjust AMP volume

- Mute : Speaker on/off

- Treble : Adjust optionally

- Base : Adjust optionally

AUTO(AUTO ADJUST) : Adjust the status of monitor automatically to high quality

Language : Available for 10 foreign language(English, France, Dutch, Italiano, Espano, Deutch, Svenska, Suomi, Dansk, Portuglues)

H-B PPOSITION -H. Position : Adjust horizontality

- V. Position : Adjust verticality

Frequency/Clock : - Phase : Adjust noise, overlapping display

- Clock : Adjust a number of pixel of horizontal plane

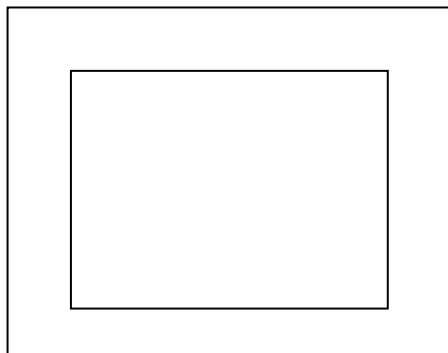
Input : RGB - Select VGA signal of computer

SVHS – Select super video signal

Composite Video – Select video signal

TV- Select TV signal when choosing TV option

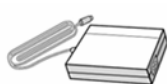
## Contents Of the Retail Package



Monitor



User's Manual



AC/DC Adaptor



Power Cord



VGA Cable



Audio Cable



Touch Driver (Option)



Composite Cable (Option)



S-video Cable (Option)

## Troubleshooting

**TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER.**

**NO USER-SERVICEABLE PARTS INSIDE.**

**REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.**

**The monitor does not respond after you turn on the system.**

Make sure that the monitor is turned on.

Turn off the power and check the monitor's power cord, AC adapter, and signal cable for proper connection.

**Appear the " No Input the Signal"**

Check the connecting of the audio cable between the monitor and the computer.

**Appear the " Input Not the Supported"**

Input signal are insuperable, reset the video mode.

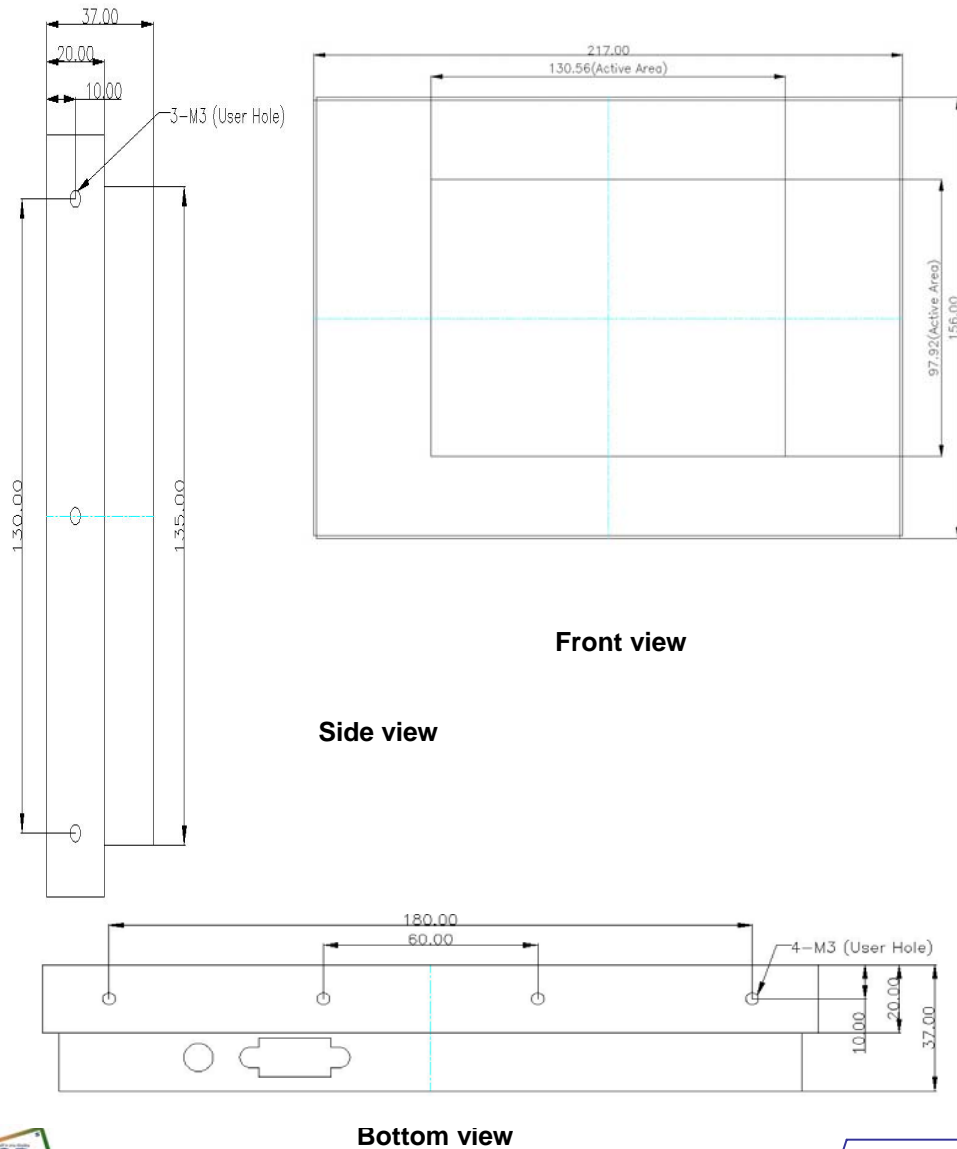
**The appearance is not at the screen center.**

Use "AUTO ADJUST", refer to the Controls section.

**The characters on the screen are too dim or too bright**

Choose fit color temperature, use "AUTO COLOUR ADJUST or manually adjust "RGB ADJUSTMENT, refer to the Control section.

## Drawing



## Specification of (OPTION)

### 5 Wire Analog Resistive Touch Panel

#### A. Application

This specification applies to the 5 Wire Analog Resistive Touch Panel.

#### B. Environmental Conditions

- Operating Temperature Range**  
-20°C – 70°C
- Operating Humidity Range**  
5% – 96% RH (no dew falls)
- Storage Temperature Range**  
-25°C – 80°C
- Storage Humidity Range**  
5% – 96% RH (no dew falls)
- Water Spray**  
Not damaged by running water applied to the active area.
- Vibration**  
Withstand 0.01 inches peak to peak excursion, at a frequency of 5 to 455 Hz, for a period of 15 minutes in each of three axes.
- Chemical Resistance**  
The touch panel active area of the touchscreen is resistant to the following chemicals when exposed for a period of one hour at a temperature of 21°C:
  - Acetone
  - Ammonia-based glass cleaners
  - Common foods and beverages
  - Hexane
  - Isopropyl alcohol
  - Methylene chloride
  - Methyl ethyl ketone
  - Mineral spirits
  - Turpentine

## C. Electrical Characteristics

- 1. Supply Voltage**  
+5VDC, nominal.
- 2. Lead to Lead Resistance**  
40Ω ~ 100Ω (between X – Y)  
50Ω ~ 110Ω (between X – LX)  
50Ω ~ 110Ω (between Y – LY)  
40Ω ~ 100Ω (between LX – LY)
- 3. Contact Bounce**  
Less than 10 ms (input by finger).
- 4. Electrostatic Discharge Protection**  
Withstands 20 discharges of 15kV, distributed randomly across the active area with proper transient protection.  
(per EN 61000-4-2, 1995)

## D. Mechanical Characteristics

- 1. Activation force**  
Less than 40gr.  
Using by the silicone finger, hardness = 60° of diameter 16mm.
- 2. Input Methods**  
Finger, glove hand, pen or stylus.
- 3. Surface Hardness**  
Meets pencil hardness 3H (per ASTM D3363).
- 4. Position Accuracy (Linearity)**  
Less than 1%.
- 5. Resolution**  
Based on controller resolution of 4096 x 4096.
- 6. Cable**
  - Type: F.C.C. (flat conductor cable)
  - Standard length: 300mm

- Connecting area with touch panel  
The tensile force: vertical to touch panel — 2.0 kg  
straight to touch panel — 1.0 kg  
Connecting type: 5 points soldering adding UV glue  
Cable fold : 10 times in 1R, 180 degrees  
Detail specification: ETC test, No.: ET-88T-12-102-C00
- 7. Connector**  
Five-position, 0.025 inch (0.635mm) square post receptacle with 2.54mm centers.  
The times of insertions and withdrawals : at least 100 times.

## E. Reliability

The following characteristics are generated by evaluating test samples after 2 hours leaving in the room condition when each of the reliability tests finishes.

Test Item	Result	Remark
Storage Temperature-high	80°C for 240hours	At ambient humidity
Storage Temperature-low	-25°C for 240hours	
Thermal Shock	-20°C (1hr.) ~ 70°C (1hr.) 10cycles	
High Temp./Humidity Test	60°C/90%RH : 240hours	
Operating Life 1 : Hitting Key Test (*1)	250g , 2 activations / sec. More than 35,000,000 times	By using Silicone finger (*2)
Operating Life 2 : Writing Test (*1)	250g , 4.5mm / sec. More than 1,000,000 times	By using polyester finger (*3)

\*1 Without supplying Volts.

\*2 Positions of hitting key are between the dots by Silicon finger (hardness 60° silicon rubber) of diameter 16mm.

\*3 Writing test is made by polyester stylus pen with tip radius.

## F. Optical Performance

Light Transmission 75~ 85% (typical value) (per ASTM D1003)



# Specification of 4 Wire Analog Resistive Touch Panel (OPTION)

## A. Application

This specification applies to the 4 Wire Analog Resistive Touch Panel.

## B. Environmental Conditions

### 1. Operating Temperature Range

-20°C ~ 70°C

### 2. Operating Humidity Range

 5% ~ 96% RH (no dew falls)

### 3. Storage Temperature Range

-25°C ~ 80°C

### 4. Storage Humidity Range

5% ~ 96% RH (no dew falls)

### 5. Water Spray

Not damaged by running water applied to the active area.

### 6. Chemical Resistance

The touch panel active area of the touchscreen is resistant to the following chemicals when exposed for a period of one hour at a temperature of 21°C:

- Acetone
- Ammonia-based glass cleaners
- Common foods and beverages
- Hexane
- Isopropyl alcohol
- Methylene chloride
- Methyl ethyl ketone
- Mineral spirits
- Turpentine

## C. Electrical Characteristics

### 1. Supply Voltage

+5VDC, nominal

### 2. Lead to Lead Resistance

200Ω ~ 500Ω (between X1 – X2)

200Ω ~ 500Ω (between Y1 – Y2)

### 3. Contact Bounce

Less than 10 ms (input by finger).

### 4. Insulation Resistance

More than 20M ohms at DC 25V.

## D. Mechanical Characteristics

### 1. Activation force

Less than 40gr.

Using by the silicone finger, hardness = 60° of diameter 16mm.

### 2. Input Methods

Finger, glove hand, pen or stylus.

### 3. Surface Hardness

Meets pencil hardness 3H (per ASTM D3363).

### 4. Position Accuracy (Linearity)

Less than 1.5%.

### 5. Resolution

Based on controller resolution of 4096 x 4096.

## E. Reliability

The following characteristics are generated by evaluating test samples after 2 hours leaving in the room condition when each of the reliability tests finishes.

Test Item	Result	Remark
Storage Temperature-high	80°C for 240hours	At ambient humidity
Storage Temperature-low	-25°C for 240hours	
Thermal Shock	-20°C (1hr.)~ 70°C (1hr.) 10cycles	
High Temp./Humidity Test	60°C/90%RH : 240hours	
Operating Life 1 : Hitting Key Test (*1)	250g , 2 activations / sec. More than 3,000,000 times	By using Silicone finger (*2)
Operating Life 2 : Writing Test (*1)	250g , 4.5mm / sec. More than 200,000 times	By using polyester finger (*3)

\*1 Without supplying Volts.

\*2 Positions of hitting key are between the dots by Silicon finger (hardness 60° silicon rubber) of diameter 16mm.

\*3 Writing test is made by polyester stylus pen with tip radius.

## F. Optical Performance

Light Transmission 75~ 85% (typical value) (per ASTM D1003)